

## Claims

- [c1] A system for simulating radio frequency identification systems comprising:
  - a database containing radio frequency identification system component specifications and other information useful for simulating such systems;
  - a user interface allowing for input and output;
  - a radio wave propagation simulator;
  - an external data network access means;
  - and a logical system simulator that uses input from the user interface, the database, the radio wave propagation simulator, and the external data network access means to determine configurations and components of radio frequency identification systems meeting requirements entered via the user interface and to add and remove records from the database.
- [c2] A system according to claim 1 wherein the database is updated on the basis of information acquired from other similar systems via the external data network access means.
- [c3] A system according to claim 1 wherein the database is updated on the basis of information acquired from the

radio frequency interrogator.

- [c4] A system according to claim 1 wherein the user interface acquires and presents information primarily via text.
- [c5] A system according to claim 1 wherein the user interface acquires and presents information primarily through graphics.
- [c6] A system according to claim 1 further comprising one or more radio frequency interrogators to provide physical-world input and output for the logical system simulator;  
A method for simulating radio frequency identification systems comprising the steps of:
  - a querying a database containing radio frequency identification system component specifications and other information useful for simulating such systems;
  - acquiring constraints from a user interface allowing for input and output;
  - sending information to and receiving information from a radio wave propagation simulator;
  - sending information to and receiving information from an external data network access means;
  - and processing the resulting data through a logical system simulator to determine configurations and components of radio frequency identification systems meeting requirements entered via the user interface and to add

**and remove records from the database.**